



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 19]

नई दिल्ली, शनिवार, मई 9, 1987 (वैशाख 19, 1909)

No. 19]

NEW DELHI, SATURDAY, MAY 9, 1987 (VAISAKHA 19, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS  
Calcutta, the 9th May 1987

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## CORRIGENDA

In the Gazette of India, Part III, Section II dated 23rd August 1986 under the heading 'Complete Specifications accepted' on page 537, Column 2 in respect of Patent Specification No. 158060, insert :

'Complete after provisional left on 17-11-1982.'

In the Gazette of India, Part III, Section II dated 15th November 1986 under the heading 'Complete Specifications accepted' on page 734, Column 1 in respect of Patent Specification No. 158442 :

- (i) For Inventor : IDEM Read Joginder Singh Kang.
- (ii) Insert 'Complete after provisional left on 26-11-83'

In the Gazette of India, Part III, Section II dated 15th November 1986 under the heading 'Complete Specifications accepted' on page 734, Column 1 in respect of Patent Specification No. 158443, Insert :

'Ante dated to 21st December 1979.'

In the Gazette of India, Part III, Section II dated 6th December 1986 under the heading 'Complete Specifications accepted' on page 776, Column 2 in respect of Patent Specification No. 158534.

- (i) For Applicant's Name Gopi Krishan Kaba.  
Read GOPI KRISHAN KABRA.

In the Gazette of India, Part III, Section II dated 18th October 1986 under the heading 'Complete Specification accepted' on page 669, Column 1 in respect of Patent Specification No. 158331.

- (i) In Title for 'A Process for the Recovery of lead and Zinc Values from Moore Cake'
- (ii) Read 'A process for the Recovery of lead and Zinc Values from Moore Cake'.

In the Gazette of India, Part III, Section II dated 13th December 1986 under the heading 'Complete Specification accepted' on page 794, Column 2 in respect of Patent Specification No. 158575, Insert

- (i) 'Ante dated to 1st November 1973.'

In the Gazette of India, Part III, Section II dated 27th December 1986 under the heading 'Complete Specification accepted' on page 827, Column 2 in respect of Patent Specification No. 158653.

- (i) For Application No. 491 Del/1982  
Read 491/DEL/82.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

## The 1st April 1987

- 259/Cal/87. Nauchno-Proizvodstvennoe Obiedinenie Po Tekhnologii Mashinostroenia. Wear-resistant cast iron.
- 260/Cal/87. Beloit Corporation. Disk refiner having sliding rigid multiple disks.
- 261/Cal/87. Opti Patent, Forschungs—Und Fabrikations AG. A sliding clasp fastener having woven supporting tapes and woven-in prefabricated rows of inter-locking members.
- 262/Cal/87. Projects & Development (India) Ltd. Improvements in correlating to a process for preparing heat conductive putty.

263/Cal/87. Projects & Development India Limited. A method for preparing an improved fertilisers having micronutrients.

264/Cal/87. Borden, Inc. Improved binder system for anodes, cathodes and electrodes. (26th January, 1987 Canada.

## The 2nd April 1987

- 265/Cal/87. Dr. Werner Freyberg Chemische Fabrik Delitia Nachf. An improved method of manufacturing a metal phosphide composition comprising technical grade metal phosphide particles. [Divisional date 5th August, 1983].
- 266/Cal/87. Beloit Corporation. A blow box for a dryer.
- 267/Cal/87. Beloit Corporation. Rotating separator.
- 268/Cal/87. Premier Irrigation Equipment Limited. A flexible pipe for use in drip irrigation systems.
- 269/Cal/87. Premier Irrigation Equipment Limited. A flexible pipe for use in drip irrigation systems.
- 270/Cal/87. Projects & Development (India) Ltd. Improvements in/or relating to a method of restoring damage concrete surfaces and/or components.
- 271/Cal/87. Projects & Development (India) Ltd. Improvements in or relating to a combination package having two improved compositions which in the combined form can be used for protecting or restoring concrete surfaces.

## The 3rd April 1987

- 272/Cal/87. Beloit Corporation. Dryer felt run.
- 273/Cal/87. Pennwalt Corporation. Selective electrolytic stripping of metal coating from base metal substrates.
- 274/Cal/87. Kabushiki Kaisha Meidensha. Vacuum Interrupter.

## The 6th April 1987

- 275/Cal/87. Siemens Aktiengesellschaft. Equipment quick-connect terminal for connecting electrical conductors to electrical equipment.
- 276/Cal/87. Essex Group, Inc. Mica Product.
- 277/Cal/87. Century Electric, Inc. Method of winding a field coil with flattened round wire and field coil produced by said method.

278/Cal/87. Franz Plasser Bahnbaumaschinenindustrie Sellschaft m.b.H. A machine for replacement or renewal of the rails and sleepers of a laid track.

## The 7th April 1987

- 279/Cal/87. Kraftwerk Union Aktiengesellschaft. Method and device for detecting and localizing faults in electrical installations.
- 280/Cal/87. Phb wasserhutte Aktiengesellschaft. An exertion for the open-pit minings.
- 281/Cal/87. Mahesh Kumar Saraswat. Production of energy from non-conventional sources.

## The 8th April 1987

282/Cal/87. Kari Kirjavainen. Method and extruder head for manufacturing extrusion products from melted plastic.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month apply for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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CLASS : 32F<sub>2</sub>(b) & 55E<sub>4</sub>

159341

Intl Cl. : C 07 d 33/00.

# A PROCESS FOR THE SYNTHESIS OF DIPEPTIDES OF 8-AMINO-6-METHOXYQUINOLINE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIAN, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

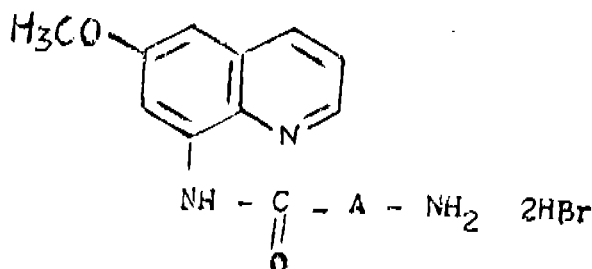
Inventors : BALKRISHN BHAT, AMIYA PRASAD BHADURI, NANDLAL PAL AND AMIYA BHUSHAN SEN.

Application for Patent No. 315/Del/83 filed on 16th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

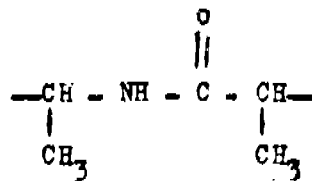
## 8 Claims

A process for the synthesis of dipeptides of 8-amino-6-methoxyquinoline of formula VI

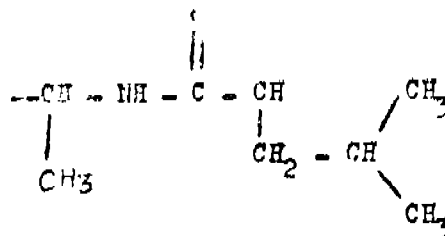


FORMULA VI

where A is a group of the formula II or III

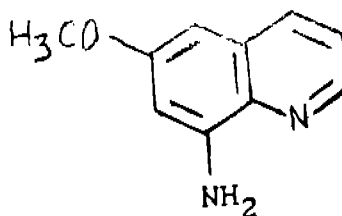


FORMULA II



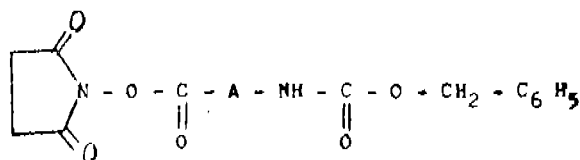
FORMULA III

comprising (a) reacting 8-amino-6-methoxyquinoline of formula I-



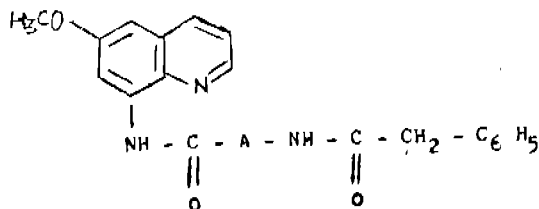
FORMULA I

with N-carbobenzoxy derivative of dipeptide of formula IV



FORMULA IV

wherein A has the meaning given above in an organic solvent to form 8-(N-carbobenzoxy-dipeptide) amino-6-methoxyquinoline of the formula V



FORMULA V

where A has the meaning given above (b) treating the compound of formula V with hydrobromic acid to obtain hydrobromide of dipeptide of 8-amino-6-methoxyquinoline of formula VI.

Compl. specn. 8 pages.

Drg. 1 sheets.

CLASS : 39 H

159342

Int. Cl. : C 01 f 11/28.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF HYDRATED CALCIUM HYPOCHLORITE.

Applicant : DELHI CLOTH & GENERAL MILLS CO. LTD., AN EXISTING COMPANY UNDER THE COMPANIES ACT, 1956, BARA HINDU RAO, DELHI, DELHI STATE, INDIA.

Inventors : ASHU GUPTA, JAGAT SINGH THAKUR, ARAGULA KRISHNA RAO & JATENDRA PRAKASH KAPUR.

Application for Patent No. 137/Del/83 filed on 4th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

An improved process for the manufacture of hydrated calcium hypochlorite comprising the steps of :

- (a) preparing a mixture of a slurry of calcium hydroxide and sodium hydroxide;
- (b) subjecting the mixture to a single step of chlorination;
- (c) subjecting the chlorinated slurry to the step of filtration such as centrifugation to obtain a cake and liquor;
- (d) drying said cake to obtain hydrated calcium hypochlorite.

characterized in that said calcium hydroxide slurry is prepared by the addition of water to calcium oxide and having a concentration of 100 to 150 g.p.l. adding barium chloride thereto, adding an aqueous solution of sodium hydroxide to said slurry and then removing water by known means such that the slurry has a concentration of 280 to 400 g.p.l. subjecting said mixture to said single step of chlorination till the reaction medium has a pH of between 9.8 to 10.5, drying said cake under mild conditions of temperature, such as 80 to 100°C.

Complete specification 15 pages.

CLASS : 180

159343

Int. Cl. : F24b—5/00, 13/00.

## A COOK STOVE.

Applicant : MAHINDER PARKASH MURGAI AND LALIT KUMAR DAS, BOTH INDIAN NATIONALS OF INDIAN INSTITUTE OF TECHNOLOGY, HAUZ KHAS, NEW DELHI-110016, INDIA, AND THE SAID INDIAN INSTITUTE OF TECHNOLOGY.

Inventors : MAHINDER PARKASH MURGAI AND LALIT KUMAR DAS.

Application for Patent No. 365/Del/1983 filed on 1st June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

A cook stove operable by fuels containing volatiles such as wood or coal comprising a chamber, a grate plate disposed within said chamber for supply of primary air thereto, characterized in secondary air inlet means provided with said chamber for supply of secondary air to said chamber, said means comprising inner perforated sidewalls supported on said grate plate, said inner perforated sidewalls disposed in a spaced relationship to the side walls of said chamber and such as to define a heated space therebetween.

Compl. specn. 7 pages.

Drwg. 1 sheet

CLASS : 39 H

159344

Int. Cl. : C 01 f 11/28.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF HYDRATED CALCIUM HYPOCHLORITE.

Applicant : DELHI CLOTH & GENERAL MILLS CO. LTD., AN EXISTING COMPANY UNDER THE COMPANIES ACT, 1956, BARA HINDU RAO, DELHI, DELHI STATE, INDIA.

Inventors : ASHU GUPTA, JAGAT SINGH THAKUR, ARAGULA KRISHNA RAO & JATENDRA PRAKASH KAPUR.

Application for Patent No. 375/Del/83 filed on 4th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims.

An improved process for the manufacture of hydrated calcium hypochlorite comprising the steps of :

- (a) subjecting a first slurry of calcium hydroxide to a first step of chlorination;
- (b) removing the insolubles therefrom;
- (c) adding a second slurry of calcium hydroxide to said first chlorinated slurry and subjecting the reaction medium to a second step of chlorination;
- (d) subjecting the reaction medium to the step of filtration such as centrifugation to obtain a cake and liquor;
- (e) drying said cake to obtain hydrated calcium hypochlorite.

characterized in that said first slurry of calcium hydroxide is prepared by the addition of water to calcium oxide and having a concentration of 100 to 150 g.p.l. adding barium chloride thereto, said second slurry of calcium hydroxide being added to said first chlorinated slurry to provide a resultant slurry having a concentration of 250 to 400 g.p.l., subjecting said resultant slurry to said second step of chlorination till the reaction medium has a pH of between 9.8 to 10.5, said cake being dried under mild conditions of temperature, such as 80 to 100°C.

Complete specification 13 pages.

CLASS : 39 H

159345

Int. Cl. : C 01 f 11/28.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF HYDRATED CALCIUM HYPOCHLORITE.

Applicant : DELHI CLOTH & GENERAL MILLS CO. LTD., AN EXISTING COMPANY UNDER THE COMPANIES ACT, 1956, BARA HINDU RAO, DELHI, DELHI STATE, INDIA.

Inventors : ASHU GUPTA, JAGAT SINGH THAKUR, ARAGULA KRISHNA RAO & JATENDRA PRAKASH KAPUR.

Application for Patent No. 376/Del/83 filed on 4th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

An improved process for the manufacture of hydrated calcium hypochlorite comprising the steps of :

- (a) subjecting a sodium hydroxide solution to a first step of chlorination till crystals of sodium chloride separate out;

- (b) adding a lime slurry to said chlorinated solution and subjecting it to a second step of chlorination;
- (c) subjecting the reaction medium to the step of filtration such as centrifugation to obtain a cake and liquor;
- (d) drying said cake to obtain hydrated calcium hypochlorite.

characterized in that said lime slurry is prepared by the addition of water to calcium oxide and having a concentration of 100 to 150 g.p.l., adding barium chloride thereto adding lime slurry to chlorinated solution of sodium hydroxide and removing water by known means such that the slurry has a concentration of 280 to 400 g.p.l., said second step of chlorination being carried till the reaction medium has a pH of between 9.8 to 10.5, drying said cake under mild conditions of temperature such as 80 to 100°C.

Complete specification 15 pages.

CLASS : 39 H

159346

Int. Cl. : C 01 f 11/28.

#### AN IMPROVED PROCESS FOR THE MANUFACTURE OF HYDRATED CALCIUM HYPOCHLORITE.

Applicant : DELHI CLOTH & GENERAL MILLS CO. LTD., AN EXISTING COMPANY UNDER THE COMPANIES ACT, 1956, BARA HINDU RAO, DELHI, DELHI STATE, INDIA.

Inventors : ASHU GUPTA, JAGAT SINGH THAKUR, ARAGULA KRISHNA RAO & JATENDRA PRAKASH KAPUR.

Application for Patent No. 377/Del/83 filed on 4th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

An improved process for the preparation of hydrated calcium hypochlorite comprising the steps of :

- (a) preparing a aqueous slurry of calcium hydroxide;
- (b) subjecting the slurry to a single step of chlorination;
- (c) subjecting the chlorinated slurry to the step of filtration such as by centrifugation to obtain a cake and liquor;
- (d) drying the said cake to obtain hydrated calcium hypochlorite.

characterized in that said slurry of calcium hydroxide is prepared by the addition of water to calcium oxide and such that the concentration is between 100 to 150 g.p.l. adding barium chloride thereto, subjecting such a slurry to the steps of drying for removal of water so that the concentration of said slurry is between 250 to 400 g.p.l., subjecting said slurry to said single step of chlorination till the reaction medium has a pH of 9.8 to 10.5 drying said cake under mild conditions of temperature, such as 80 to 100°C.

Complete specification: 13 pages.

CLASS : 55F [XIX(1)]

159347

Int. Cl. : A 61 k 27/00.

#### COLOURED INTAGLIATED ARTICLE".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventors : SIDNEY FENTON FORSE AND RAYMOND CHARLES ROWE.

Application for Patent No. 379/Del/1983 filed on 6th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 9 Claims

A process for the coating of coloured intagliated articles such as herein described bearing at least one highlighted intagliation, which comprises applying to coloured intagliated articles in a known manner a suspension comprising at least one optically anisotropic substance such as herein described, having a minimum refractive index not greater than 2.00, in a suitable liquid such as herein described in which the optically anisotropic substance is insoluble or of relatively poor solubility, which process is carried out in a conventional film coating apparatus in such a way that a rubbing action takes place between the articles being coated, whereafter, if desired, at least one film coating solution or suspension comprising at least one film coating agent, optionally at least one coating adjuvant, and optionally at least one colouring agent, is applied to the articles in conventional manner.

Compl. specn. 18 pages.

Drg. no sheets

CLASS : 65B 3[LVII(2)]

159348

Int. Cl. : H 01 f 21/12.

#### STAR POINT LOAD SELECTOR FOR A TAPPED TRANSFORMER.

Applicant : MASCHINENFABRIK REINHAUSEN GEBRÜDER SCHEUBECK GmbH & CO., KG, A KOMMANDITGESELLSCHAFT ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY OF FALKENSTEINSTRASSE 8, 8400 REGENSBURG, FEDERAL REPUBLIC OF GERMANY.

Inventor : REINHARD SCHMID.

Application for Patent No. 384/Del/1983 filed on 7th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 3 Claims

A star point lead selector for a tapped transformer, comprising an upright cylindrical housing provided with a plurality of stationary contacts arranged in phases spaced apart axially of the housing, and a selector column arranged in the housing axially centrally thereof for rotation in steps and provided with a plurality of spaced apart contact systems each disposed to selectively contact the contacts of a respective one of the phases on stepwise rotation of the column and with a plurality of switch-over resistors carried by insulating carriers mounted on the column, the column comprising a metallic tube extending in the region of the contact systems and the resistors and arranged so, in use, conduct voltage at star point potential, and an insulating tube providing insulation relative to earth and being sleeved together with the metallic tube in the region of the uppermost one of the contact systems, the uppermost contact system being fastened to the column by fastening means extending at least in part through the walls of both of the tubes.

Complete specification 6 pages.

Drawings two Sheets.

CLASS : 146D [XXXVIII(2)]

159349

Int. Cl. : G 02 b 1/00.

ASTIGMATIC OPTICAL ELEMENT FOR MODIFYING THE ENERGY DISTRIBUTION OF A RADIATION BEAM AND PROCESS FOR FORMING SUCH AN ELEMENT.

Applicant : RAYMOND MARC XAVIER GLEIZES OF 73 LES MLEZES F 95680 MONTIGNON, FRANCE OF FRENCH NATIONALITY AND RYFFEL LIMITED OF 36 WATERLOO ROAD, DUBLIN 4, IRELAND, AN IRISH COMPANY.

Inventor : ARNAUD JEAN PIERRE ALFRED.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

Astigmatic optical element for modifying the energy distribution of a radiation beam, characterised by

- a flat member (22) having two main faces the thickness of said member varying over the area of the said faces, said flat member (22), in a first state, having one main face which is planar or is a section of a surface of revolution and is optically polished and the opposite main face has a surface defined by a generatrix, and
- means (14, 16, 20, 24, 26) for deforming said flat member (22) by flexing said flat member about an axis parallel to said generatrix,
- whereby said deforming means (14, 16, 20, 24, 26) provides for flexing said flat member (22) between said first state and at least a second state in which said one main face is neither planar nor a section of a surface of revolution.

Compl. specn. 17 pages.

Drg. 4 sheets

CLASS : 39E & 39L [III]

159350

Int. Cl. : C 01 b 15/02.

PROCESS FOR PRODUCING HYDROGEN PEROXIDE.

Applicant : GOSUDARSVTENNY NAUCHNO-ISSLEDOVATELSKY INSTITUT KHIMII I TEKHOLOGII ELEMENTOORGANICHESKIKH SOEKINENY OF SHOSSE ENTUZIASTOV, 38, MOSCOW, U.S.S.R., AN U.S.S.R. INSTITUTE.

Inventor : PAVEL INANOVICH FILIMONOV, JURY IUSTINOVICH DERBENTSEV, EVGENY MIKHAILOVICH EMELIANOV, NATALYA ALEXEEVNA PETROVA ANATOLY IVANOVICH GORNUNOV, NIKOLAI IVANOVICH BOLDENKOV AND VALENTINA FEDOROVNA KOSAREVA.

Application for Patent No. 388/Del/1983 filed on 8th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A process for producing hydrogen peroxide comprising catalytical hydrogenation of a working solution of mixture of anthraquinones such as herein described dissolved in an organic solvent of the kind herein described to the formation of anthrahydroquinones, oxidation of the mixture of anthrahydroquinones with oxygen or an oxygen containing gas in the presence of an acid type hydrogen peroxide stabilizer of the kind herein described till the formation of a mixture of anthraquinones and hydrogen peroxide, extraction of hydrogen peroxide from the oxidised working solution by the means of demineralised water and recycling the working solution to the stage of hydrogenation characterised in that said oxidation of the mixture is carried out in the presence of said acid type hydrogen peroxide stabilizer taken in an amount ensuring acidity of said solution corresponding to a pH within the range of from 6.1 to 8.7.

Compl. specification 24 pages.

Drg. 1 sheets

CLASS : 32-F<sub>1</sub>

159351

Int. Cl. : C 07 c 43/28.

A METHOD FOR THE PREPARATION OF DIFLUORO-METHOXYAROMATIC COMPOUNDS.

Applicant : AMERICAN CYANAMID COMPANY, OF THE TOWNSHIP OF WAYNE, STATE OF NEW JERSEY, UNITED STATES OF AMERICA.

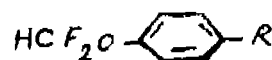
Inventors : 1. VENKATARAMAN KAMESWARAN, 2. JACK KENNETH SIDDENS, 3. SIVARAMAN RAGHU.

Application No. 979/Cal/83 filed August 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

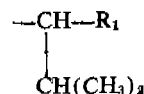
#### 14 Claims

A method for the preparation of a compound of the structural formula (I) of the Accompanying drawings

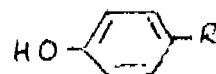


FORMULA I

wherein R is C<sub>1</sub>-C<sub>8</sub> alkyl, halogen, nitro, or R is the moiety



wherein R<sub>1</sub> is CN, COOR<sub>2</sub>, OH, or OR<sub>3</sub>, R<sub>2</sub> is C<sub>1</sub>-C<sub>8</sub> alkyl, and R<sub>3</sub> is tosyl, mesyl, or C<sub>2</sub>-C<sub>4</sub> alkanoyl, comprising: alkylating a *p*-substituted phenol having the formula (II)



FORMULA II

wherein R is as described above, with excess chlorodi-fluoromethane at atmospheric or superatmospheric pressure in the presence of a base, water, and an inert water miscible organic solvent or solvent mixture, alone or in the presence of benzyltriethylammonium chloride, to yield the difluoromethoxyaromatic compound of formula (I).

Compl. specn. 51 pages.

Drg. 4 sheets

CLASS : 40-F

159352

Int. Cl. : C 22 c 9/00.

CONTACT MATERIAL OF VACUUM INTERRUPTER AND MANUFACTURING PROCESS THE REFOR.

Applicant : KABUSHIKI KAISHA MEIDENSHA OF 1-17, OHASAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : 1. YOSHIYUKI KASHIWAGI, 2. YASUSHI NODA, 3. KAORU KITAKIZAKI.

Application No. 989/Cal/83 filed August 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

Contact material of composite metal for a vacuum interrupter comprising :

between 20 to 70 weight % copper;

between 5 and 70 weight % molybdenum; and

between 5 and 70 weight % chromium the sum total of the said three elements being 100 units; wherein a porous matrix into which between said 5 and 70 weight % molybdenum powder and between 5 and 70 weight % chromium powder are diffusion bonded to each other; and

between 20 and 70 weight % copper infiltrated into the porous matrix.

Compl. specn. 27 pages.

Drg. 4 sheets

CLASS : 206-E

159353

Int. Cl. : H 03 c 7/00.

A DELTA-SIGMA MODULATOR FOR DIGITALLY ENCODING AN ANALOG INPUT SIGNAL.

Applicant : INTERNATIONAL STANDARD ELECTRIC CORPORATION, OF 320 PARK AVENUE, NEW YORK-10022, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. KISHAN SHENOI, 2. BHAGWATI PRASAD AGRAWAL.

Application No. 993/Cal/83 filed August 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A Delta-Sigma ( $\Delta\Sigma$ ) modulator for digitally encoding an analog input signal including :

(a) clock means for generating a recurring timing gate waveform having first and second levels and first and second switching gate waveforms within the duration of but not overlapping the first and second levels, respectively, of the timing gate waveform, said timing gate waveforms and said switching gate waveforms having frequencies high compared to the highest frequency component of the analog signal;

(b) a first sampling circuit including switching means and a first capacitor for storing the instantaneous amplitude value of said analog input signal during the first switching gate waveform and for outputting said stored amplitude value during the second switching gate waveform;

(c) first integrating means operative as a first low-pass filter responsive to the output of said first sampling circuit;

(d) a second sampling circuit including a second capacitor and switching means for storing the instantaneous amplitude value of the output signal of said first integrating means during said first switching gate waveform and for outputting said stored amplitude value during said second switching gate waveform;

(e) second integrating means operative as a second low-pass filter responsive to the output of said second sampling circuit;

(f) a one-bit analog-to-digital converter clocked by said timing gate waveform and providing and outputs as a function of the corresponding instantaneous polarity of the output signal of said second integrating means;

(g) reference means including a third capacitor and additional switching means connected to charge said third capacitor to +V or -V reference voltage during said first switching gate waveform in

polarity corresponding to on Q or  $O_1nQ$ , respectively, where  $O_1$  is said first switching gate waveform and  $O_2$  is said second switching gate waveform and to apply said third capacitor voltage to said first integrating means input during said  $O_2$  time; and

(h) second reference means including a fourth capacitor and second additional switching means connected to charge said fourth capacitor to +V or -V reference voltage during said first switching signal in polarity corresponding to  $O_1nQ$  or  $O_2nQ$ , respectively, and to apply said fourth capacitor voltage to said second integrating means input during said  $O_2$  time.

Compl specn. 18 pages.

Drg. 3 sheets

CLASS : 160-D

159354

Int. Cl. : B 60 f 1/00.

TRUCK.

Applicant : SCHORLING GMBH & CO. WAGGONBAU, OF SCHORLINGSTRASSE 3, 3000 HANNOVER-LINDEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. KARL-HEINZ SPLISTESER.

Application No. 994/Cal/83 filed August 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

Truck characterised in that a wheel frame with railtrack wheels (3, 4) that can be lifted and lowered from the driver's seat is provided, which also permits operation of the truck on rails, that the wheel frame is articulated on angle levers (7, 8 and 9, 10 respectively), of which two angle levers are connected with one another via shaft (11), that the one limb (9) of the one angle lever (9, 10) is operated by a pressure-medium controlled cylinder (16) and that the swivel movement of this one limb (9) is transmitted to the corresponding limb (7) of the other angle lever (7, 8) via a tie rod (18) adjustable in its length and blocking is provided which is to be switched from the driver's seat with the operation of which the two springs (22) of the front axle (1) are rigidly connected to the wheel frame of the truck.

Compl. specn. 11 pages.

Drg. 3 sheets

CLASS : 167-C

159355

Int. Cl. : B 07 b 1/00.

DEHYDRATING CENTRIFUGAL SIEVE.

Applicants : ZABRAZANSKA FABRYKA MASZYN GORNICZYCH "POWEN", OF ZABRZE, UL. WOLNOSCI 318, POLAND, AND CENTRUM MECHANIZACJI GORNICTWA "KOMAG", OF GLIWICE, UL. PSZCZYN-SKA 37, POLAND.

Inventors : 1. ADOLF SZCZESNY, 2. REINER KLEINERT, 3. ANTONI JEDO, 4. ZYGMUNT GUTORSKI.

Application No. 998/Cal/83 filed August 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

Dehydrating centrifugal sieve with conical sieve elements with nozzles substantially tangent to said sieve element, having an offtake of granular concentrate in the centre of the lower part of sieve element and an offtake of clarified liquid on the side of the lower part of the housing, characterised in that it has at least two sieve element disposed one above the other and at the same time one inside the other separated from each other by conical funnels terminated at the bottom with a circumferential gutter connected by a pipe passage situated in an offtake of concentrate with a flowoff surface and an offtake of clarified liquid.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 168-G

159356

Int. Cl. : G 01 v 1/22.

## APPARATUS FOR SEISMIC SIGNAL ACQUISITION IN A BOREHOLE.

Applicant : SCHLUMBERGER LIMITED, OF 277 PARK AVENUE, NEW YORK, N.Y. 10172, U.S.A.

Inventors : 1. JEAN-LUC DECORPS, 2. GUY BLANPAIN, 3. ALAIN DELPUECH.

Application No. 1025/Cal/83 filed August 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

Apparatus for seismic signal acquisition at different levels in a borehole, characterized by the fact that it comprises :

an elongated body;

seismic wave detection means in the body;

an anchoring member articulated on the body and movable to a retracted position substantially along the body;

a resilient device acting to extend the anchoring member away from the body;

a drive device capable of retracting the anchoring member against the action of the resilient device via a transmission device, characterized in that the drive device is capable of furnishing a torque in both directions of rotation and said transmission device comprises a clutch device.

Compl. specn. 21 pages.

Drg. 8 sheets

CLASS : 69-I, O &amp; P

159357

Int. Cl. : H 02 b 1/14.

## SHUTTERING APPARATUS IN AN ENCLOSED SWITCHBOARD.

Applicant : KABUSHIKI KAISHA MEIDENSHA OF 1-17, OHSAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : 1. SUEICHI KIDA, 2. TOSHITARO YAMAMOTO, 3. YOSHIFUMI TAKAHASHI.

Application No. 1038/Cal/83 filed August 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A shuttering apparatus in an enclosed switchboard, in which a truck mounted circuit breaker is housed and a bus housing in which a power supply bus and load cable bus are housed and at least one pair of upper and lower bushing disposed with space apart from each other, for connecting stationary electrode conductive connectors with the said buses, said shuttering apparatus comprising :

(a) an actuation lever (8), disposed within the circuit breaker housing and one end thereof (ii) pivotally mounted on axle (O<sub>1</sub>) which is axially secured to both side walls of the enclosed frame to respond as a fulcrum to the movement of the truck mounted circuit breaker;

(b) at least one rod (12') extended vertically with its lower end pivotally attached to the other end of said actuation lever;

(c) upper and lower guide plates (21A, 21B), said upper guide plate being located above the upper bushing and said lower guide plate being located below the lower bushing, each of which guidably inserts said rod therethrough;

(d) A pair of upper and lower shutter plates (24A, 24B) for covering front surfaces of the upper and lower bushings;

(e) an upper shutter plate supporting arm (22A) one end thereof being fixed to a side end of said upper shutter plate and the other end thereof being pivotally supported by said upper guide plate;

(f) a lower shutter plate supporting arm (22B) one end thereof being fixed to a side end of said lower shutter plate and a substantially central portion thereof being axially supported by said lower guide plate;

(g) an upper cam plate (27A), one end thereof fixed to said rod and the other end thereof extended toward the truck-mounted circuit breaker, which slidably supports said upper shutter plate supporting arm; and

(h) a lower cam plate (27B), one end thereof fixed to said rod and the other end thereof extended toward the grounded partition wall opposite to said upper cam plate, which slidably supports said lower shutter plate supporting arm, whereby with the introduction of the truck-mounted circuit breaker into its housing the said rod is moved upward and the said upper shutter plate is spaced apart from the upper bushing and the said lower shutter plate is spaced apart from said upper and lower bushings.

Compl. specn. 26 pages.

Drg. 7 sheets

CLASS 39-G &amp; P

159358

Int. Cl. : C 01 d 5/10.

## PROCESS FOR CONVERTING CALCIUM SULPHATE INTO METAL SULPHATES OF HIGHER VALUES.

Applicant : SUPERFOS A/S. OF 30, FRYDENLUNDSVEJ, DK-2050, VEDBAEK, DENMARK.

Inventor : 1. KNUD CHRISTEN BAYER KNUDSEN.

Application No. 1054/Cal/83 filed August 30, 1983.

Convention dated 2nd September, 1982 (82 25006) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A process for converting calcium sulfate into potassium sulfate or sodium sulfate by ion exchange with an anion exchanger in the Cl<sup>-</sup> form and subsequent regeneration of the anion exchanger, characterized in that an aqueous suspension of calcium sulfate is reacted at a pH of 0-4 with the anion exchanger resin loaded initially with chloride ions to form a calcium chloride solution and a sulfate loaded ion exchanger resin after which the sulfate loaded resin is regenerated by contacting with a potassium chloride or sodium chloride solution to form a chloride loaded ion exchanger resin and a potassium sulfate or sodium sulfate solution, the chloride loaded ion exchanger resin being recycled to the stage wherein it is reacted with calcium sulfate in aqueous suspension.

Compl. specn. 10 pages.

Drg. Nil

CLASS : 116-G; 158-D

159359

Int. Cl. : B 61 k 1/00.

## AN APPARATUS FOR LOADING RAILROAD CARS.

Applicant : MANGOOD CORPORATION, OF 676 NORTH STREET, CLAIR, CHICAGO, ILLINOIS 60611, U.S.A.

Inventor : 1. JACK RICHARD CALDICOTT.

Application No. 1095/Cal/83 filed September 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.



## 4 Claims

An apparatus for loading railroad cars coupled together and in motion, comprising :

- means for selecting a railroad car to be loaded;
- means for obtaining the empty composite weight of the front truck of the selected railroad car and the rear truck of the adjacent railroad car forward of the selected railroad car;
- means for obtaining the empty composite weight of the rear truck of the selected railroad car and the front truck of the adjacent railroad car behind the selected railroad car;
- means for obtaining the total dynamic composite weight while the car is being loaded;
- means for selecting a desired predetermined net weight of the load; and
- means for loading the selected railroad car in motion until a total dynamic composite weight is reached that is substantially equal to said empty composite weights plus said predetermined net weight of the load.

Compl. specin. 17 pages.

Drg. 3 sheets

CLASS : 116-G & H

158360

Int. Cl. : B 66 c 13/00.

## TELECONTROL SYSTEM FOR CRANES.

Applicant : FMC CORPORATION, OF 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventors : 1. FERRUCCIO VILLA, 2. FABIO CASTELLI.

Application No. 1106/Cal/83 filed September 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

In a crane having a swingable upper works including a cab and a pressure actuated clutch for controlling a crane function, the improvement comprising :

- a cab control panel including a control lever movable to provide a control input;
- electronic circuit means for producing a variable current related to said control input;
- a solenoid connected to said circuit means and producing a solenoid force related to said current; and
- hydraulic valve means operatively connected to said solenoid for modulating pressure to said clutch as a function of said solenoid force.

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 32C

159361

Int. Cl. : Co 7 g, 17/00.

## PROCESS FOR THE EXTRACTION OF AN ACTIVE COMPOUND FROM THE PLANT FERULA JAESCHMENA USEFUL AS ABORTIFACIENT.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : GIRISH KUMAR JAIN, BACHAN SINGH ASWAL, BISHAN NARIAN MEHROTRA, DEOKI NANDAN GUPTA, BACHU SRINIVASULU SETTY, JAGAT PAL SINGH SARIN, VED PRAKASH KAMBOJ AND NANDOO MAL KHANNA.

2-57 GI/87

Application for Patent No. 39/Del/82 filed on 16th January, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A process for the extraction of active compound having the molecular formula  $C_{19}H_{24}O_4$ , melting point  $68-70^\circ\text{C}$  and UV maxima at 257 nm useful as an abortifacient compound from the plant *Ferula Jaeschkena* comprising extracting the powdered plant material with polar and/or non polar organic solvent, removing the solvent, further extracting the residue with a non-polar solvent and separating the active compound from the extract by fractional chromatography using a non polar or a mixture of non polar and polar solvents.

Complete specification 6 pages.

CLASS : 32F1&2 (b)

159362

Int. Cl. : C 07 d 99/00.

## PROCESS FOR THE PREPARATION OF PENICILLANOYL-OXYMETHYL PENICILLANATE DERIVATIVES.

Applicant : PEIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

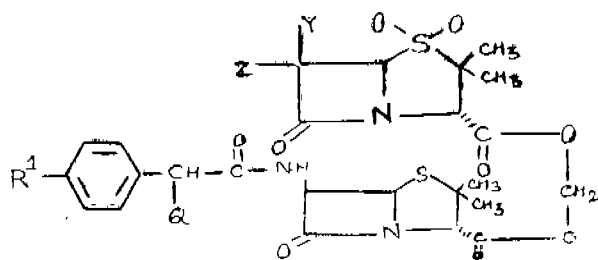
Inventor : VYTANTAS JOHN JASYS.

Application for Patent No. 102/Del/1982 filed on 9th February, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

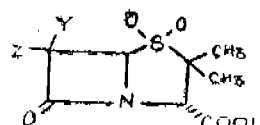
## 6 Claims

A process for preparing a compound of the formula I

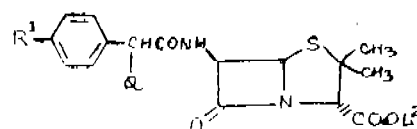


of the accompanying drawings wherein  $R^1$  is H or OH; Y and Z are each Cl, Br, or I, or Y is H and Z is Cl, Br or I; and Q is  $NH$ ,  $NHCO_2CH_2C_6H_4R^4$  where  $R^4$  is H, Cl, Br,  $NO_2$ ,  $CH_3$  or  $OCH_3$ ;

characterized in that equimolar amounts of compounds of the formula XIV and XV



Formula XIV



of the drawings are reacted in the presence of a polar organic solvent of the kind such as herein described at a temperature of from 0 to 80°C., where one of L<sup>1</sup> and L<sup>2</sup> is a cation M, and the other is CH<sub>3</sub>X where M is an alkali metal, alkaline earth, tertiary amine or tetraalkyl ammonium cation and X is Cl, Br, I, OSO<sub>3</sub>R<sup>3</sup> is where R<sup>3</sup> is alkyl having from one to six carbon atoms or C<sub>6</sub>H<sub>4</sub>R<sup>3</sup> and R<sup>3</sup> is Cl, Br, I, NO<sub>2</sub> or alkyl or alkoxy having from one to three carbon atoms.

Complete specn. 45 pages.

Drg. 4 sheets

CLASS : 32 E

159363

Int. Cl. : B 01 j 1/04.

#### AN ION EXCHANGE APPARATUS SYSTEM.

Applicant : AMERICAN PETRO MART, INC, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF FLORIDA, U.S.A., OF 125 NORTH WILSON, BARTOW, FLORIDA 33830, UNITED STATES OF AMERICA.

Inventors : HAROLD NELSON HEDRICK AND SOLON GENE WHITNEY.

Application for Patent No. 399/Del/1982 filed on 26th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

an ion exchange apparatus system utilizing moving folded beds for loading and stripping of the ion exchange resin, including at least a resin-containing loading column, a resin-containing stripping column, first resin transfer means for moving increments of liquid-containing loaded resin in a first circuit from the upper portion of the loading column to the lower portion of the stripping column, second resin transfer means for moving increments of liquid-containing stripped resin in a second circuit from the upper portion of the stripping column to the lower portion of the loading column, and liquid inlet and outlet means, respectively, for introducing liquids into upper portions of said columns and removing liquids from the lower portions thereof, wherein the improvement comprises providing separate treatment and pulse chambers in said first and second transfer circuits, including at least one treatment chamber before each of the pulse chambers, the last of the treatment chambers in each circuit receiving liquid-containing resin and being selectively insoluble from the pulse chamber therein and connectable thereto through resin valve means provided therebetween, said last treatment chambers in each of said circuits including gas and liquid inlet and outlet means for use in removing liquid from the resin, said outlet means being arranged to discharge the removed liquid while the last of the treatment chambers in the circuit is isolated from the pulse chamber therein, the pulse chambers receiving the treated resin having means for transferring pulsed compacted increments of treated resin, respectively, to said stripping and loading columns, said loading and stripping columns being full of resin from the bottom to the top thereof, and said first and second resin transfer means being arranged so that the introduction of each pulsed compacted resin increment to the bottom of the loading or stripping column causes the expulsion of a resin increment of corresponding compacted volume from the top thereof for transfer, respectively, in said first and second circuits.

Compl. specn. 20 pages.

Drg. 1 sheet

CLASS : 32F<sub>2</sub>(b)

159364

Int. Cl. : C 07 d 31/00.

#### PROCESS FOR PREPARING 2, 6-PYRIDINEDIMETHANOL BIS (3, 4, 5-TRIMETHOXYBENZOATES).

Applicant : FRODFS S.A., A SPANISH COMPANY OF TRABAJO STREET, SAN JUSTO DESVERN, BARCELONA, SPAIN.

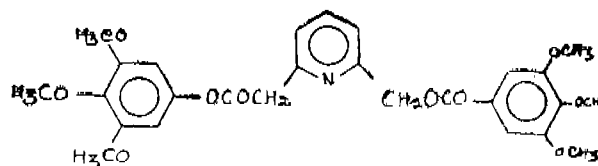
Inventor : VEIT DAGMAR MARIA VEDRILLA.

Application for Patent No. 406/Del/1982 filed on 28th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

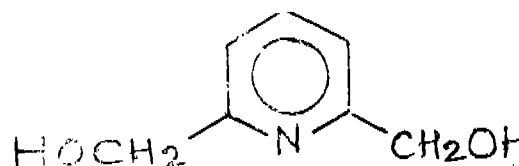
#### 6 Claims

A process for the preparation of 2, 6-pyridinedimethanol bis (3, 4, 5-trimethoxybenzoate) of formula I



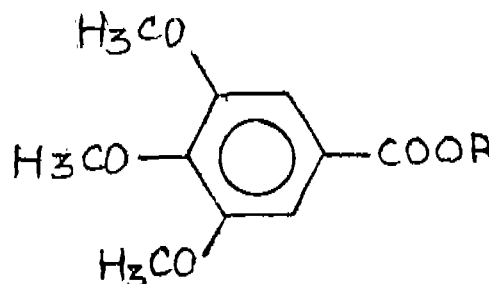
Formula I

characterized by transesterification by reacting 2, 6-pyridinedimethanol of formula II



Formula II

with esters of 3, 4, 5-trimethoxybenzoic acid of formula III



Formula III

wherein R represent lower alkyl lineal or ramified (C<sub>1</sub>-C<sub>4</sub>), in the presence of a base of the kind such as herein described.

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 189 [LXVI(9)]

159365

Int. Cl. : A 6k 7/00.

#### HIGHLY ABSORBENT SYNERGISTIC BOF.Y POWDER COMPOSITION.

Applicant : COLGATE-PALMOLIVE COMPANY, OF 300 PARK AVENUE, NEW YORK, NEW YORK-10022, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : DINA ILONA BRACHMAN, STUART DAVID FRIEDMAN AND EDWARD EIGEN.

Application for Patent No. 613/Del/1982 filed on 11th August 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

A highly absorbent synergistic body powder composition comprising as base powder finely ground rice hulls which pass through a 200 mesh sieve in an amount of from 1% to 98% by weight of the composition in combination with at least one metallic stearate binding agent, the balance, if any, comprising one or more conventional binding agents and/or one or more conventional powders as secondary powders.

Compl. specn. 18 pages.

CLASS : 32F<sub>1</sub> & (b) & 55E<sub>4</sub>

159366

Int. Cl. : C 07 d 99/22.

### PROCESS FOR PREPARING BETA-LACTAMASE INHIBITING AGENTS.

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : WAYNE ERNEST BARTH.

Application for Patent No. 616/Del/82 filed on 11th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

A process for preparing compound of the formula IX

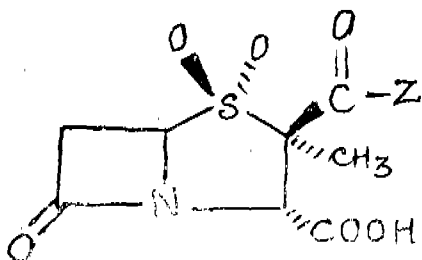


Fig IX

wherein Z is alkoxy having 1 to 4 carbon atoms, omega-hydroxyalkoxy having 2 to 4 carbon atoms, carboalkoxymethoxy having from 3 to 6 carbon atoms or omega-acetamidalkoxy having from 2 to 4 carbon atoms in the alkoxy group, which comprises: reacting a compound of formula X

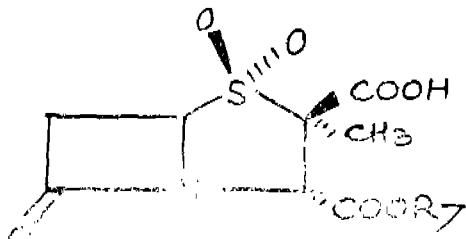


FIG. X

wherein R<sub>7</sub> is benzyl in a reaction inert solvent with a halogenating agent of the kind such as herein described in the presence of an acid acceptor of the kind such as herein described followed by reaction of thus formed acid halid with a compound of the formula ZOH wherein Z is as defined above in the presence of an acid acceptor in a reaction inert solvent of the kind such as herein described.

Compl. specn. 34 pages.

Drg. 4 sheets

## CLASS : 123

159367

Int. Cl. : C 05 g 1/06 & C 08 c 7/04, 17/28.

### METHOD FOR THE MANUFACTURE OF A SLOW RELEASE AGRICULTURAL COMPOSITION.

Applicant : PETROLIAM NASIONAL BERHAD, A MALAYSIAN COMPANY OF 136 JALAN PUDU, KUALA LUMPUR 05-03, MALAYSIA.

Inventor : YEOH CHOON SENG AND CHEN SEONG FONG.

Application for Patent No. 624/Del/1982 filed on 16th August, 1982.

Convention date on 20th August, 1981/8125458/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A method for the manufacture of a slow release coated particulate agricultural composition which comprises contacting particles of an agricultural material of the kind such as herein described with a protein degraded prevulcanized natural rubber latex and coagulating and drying the rubber on the particles of the agricultural material whereby coating the particles with a film of protein degraded prevulcanized natural rubber.

Compl. specn. 24 pages.

CLASS : 32F<sub>2</sub>(b)

159368

Int. Cl. : C 07 d 91/54.

### A PROCESS FOR PREPARING 1, 2, 3-THIADIAZOL-5YL-UREA DERIVATIVES.

Applicant : SCHERING AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANISED ACCORDING TO THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY OF BERLIN AND BERGKAMEN, FEDERAL REPUBLIC OF GERMANY.

Inventors : HANS RUDOLF KRUGER, FRIEDRICH ARNDT & REINHARD RUSCH.

Application for Patent No. 695/Del/82 filed on 10th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A process for preparing 1, 2, 3-thiadiazol-5-yl-urea derivative of the general formula I

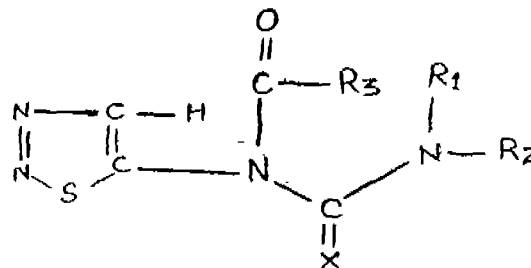


FIG. I

in which

R<sub>1</sub> represents hydrogen,

R<sub>2</sub> represents a C<sub>1</sub>-C<sub>4</sub>-alkyl group which may be interrupted by at least one atom selected from oxygen and sulphur atoms, a cycloaliphatic hydrocarbon group which

may be substituted by at least one alkyl group, an aromatic hydrocarbon group which may be substituted by one or more substituents selected from halogen atoms and alkyl, alkylthio, alkoxy, trifluoromethyl and nitro groups, or an unsubstituted or substituted heterocyclic hydrocarbon group containing at least one nitrogen hetero atom,

$R_a$  represents a hydrogen atom, an unsubstituted or substituted  $C_1$ - $C_{10}$ -alkyl group, a  $C_6$ - $C_8$ -alkyl group, a  $C_6$ - $C_8$ -cycloaliphatic hydrocarbon group which may be substituted by at least one  $C_1$ - $C_6$ -alkyl group, an aromatic hydrocarbon group which may be substituted by one or more substituents selected from halogen atoms and  $C_1$ - $C_6$  alkoxy, trifluoromethyl and nitro groups, or an unsubstituted or substituted heterocyclic hydrocarbon group, and

X represents an oxygen atom or a sulphur atom, comprising reacting a compound of general formula II

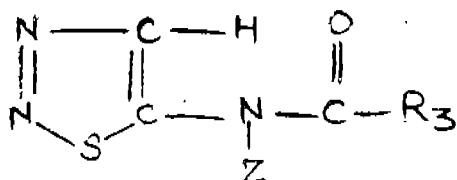


FIG. II

wherein  $R_a$  has the meaning given above and Z represents a hydrogen atom with a compound of the general formula IV

FIG. IV

in which  $R_x$  and X have the meaning given above.

Compl. specn. 36 pages.

Drg. 1 sheet

CLASS : 32 F<sub>1</sub>

159369

Int. Cl. : C 07 c 60/90.

A PROCESS FOR THE PREPARATION OF HETERO-CYCLIC ESTERS OF PHENOXYBENZOIC ACIDS.

Applicant : VELSICOL CHEMICAL CORPORATION, A CORPORATION OF THE STATE OF DELAWARE OF 341 EAST OHIA STREET, CHICAGO, ILLINOIS 60611, UNITED STATES OF AMERICA.

Inventor : FRANK WU.

Application for Patent No. 924/Del/1982 filed on 17th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A process for the preparation of a compound of Formula I

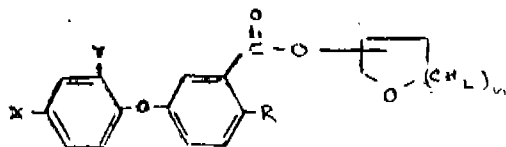


FIG. I

shown in the accompanying drawings, which comprises reacting an acid chloride of the formula II

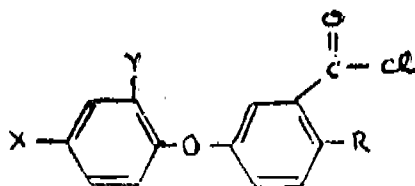


FIG. II

wherein X is halogen or trifluoromethyl; Y is selected from the group consisting of hydrogen, halogen, nitro and cyano; R is selected from the group consisting of nitro, alkylthio, halogen and cyano with an equimolar amount of an alcohol of the formula III



FIG. III

wherein n is the integer 1 or 2, in an inert solvent.

Compl. specn. 22 pages.

Drg. 1 sheet

CLASS : 70 C<sub>4</sub> & s

159370

PROCESS FOR THE DEPOSITION OF METALS ON SEMICONDUCTOR POWDERS.

Applicant : CIBA-GEIGY AG OF KLYBECKSTRASSE 141, 4002 BASLE, SWITZERLAND, A SWISS CORPORATION.

Inventors : KURT MEIER, NIKLAUS BUHLER & JEAN FRANCOIS ROBERT.

Application for Patent No. 939/Del/82 filed on 28th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A process for the deposition of copper, lead, mercury, tin, gold, silver, palladium, osmium and/or cadmium on semiconductor powders, which process comprises irradiating with light of wave length from 200 to 650 nm in an open system a suspension of a semiconductor powder in the presence of oxygen or oxygen and CO of an oxidisable system which consists of water, alkanols containing up to 6 carbon atoms, mixtures of water and alkanols containing up to 6 carbon atoms or other organic solvents, mixtures of water and alkali metal sulfites or sulfides, alkaline earth metal sulfites or sulfides, or ammonium sulfites or sulfides, or acetate buffer, and of a copper lead, mercury, tin, gold, silver, palladium, osmium and/or cadmium salt or complex.

Compl. specn. 12 pages.

CLASS : 24B f

159371

Int. Cl. : F 16d 65/12.

A SLIDING CALIPER DISC BRAKE ASSEMBLY FOR A VEHICLE.

Applicant : THE BEDIX CORPORATION OF BEDIX CENTER, SOUTHFIELD, MICHIGAN, 48037, U.S.A., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventor : KURT RICHARD HEIDMANN, JON STEPHEN CANALE & HANS BUKHARDT.

Application for Patent No. 216/Del/1983 filed on 4th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A sliding caliper disc brake assembly (10) for a vehicle comprising a rotor (12) mounted for rotation with a member to be braked, said rotor (12) having a pair of friction faces (14, 16), a pair of friction elements (18, 20) disposed adjacent said friction faces, a caliper (32) for

urging said friction elements (18, 20) into braking engagement with said friction faces (14, 16), a support member (22) for supporting said caliper (32), and means connected to said caliper for slidably mounting said caliper (32) on said support member (22), characterised by said slidably mounting means including a camming member (66) carried by said support member (22) and slidably engaged by said caliper (32) and a torsion spring (82) connected to said caliper and said camming member for yieldably rotating said camming member (66).

Compl. specn. 9 pages.

Drg. 2 sheets

CLASS : 32 F<sub>1</sub> & 55 D

159372

Int. Cl. : A01.h

#### A PROCESS FOR THE PREPARATION OF FURFURYL AMIDES OF PHENOXYPHENOXY-ALKANOIC ACIDS.

Applicant : VELSICOL CHEMICAL CORPORATION, A CORPORATION OF THE STATE OF DELAWARE, OF 341 EAST OHIO STREET, CHICAGO, ILLINOIS-60611, UNITED STATES OF AMERICA.

Inventors : LEONARD JOSEPH STACH & TAKEO HOKAMA.

Application for Patent No. 228/Del/1983 filed on 6th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of a compound of general Formula I

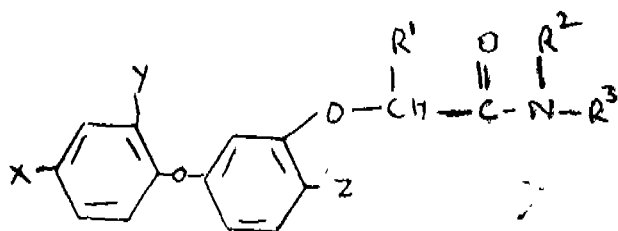


FIG. I

which comprises reacting an acid chloride of the Formula II

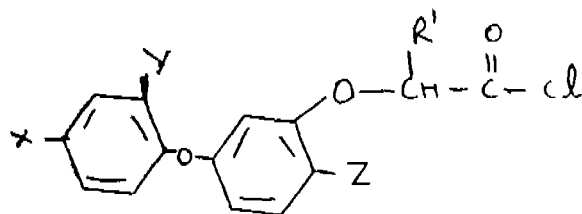


FIG. II

wherein X is halogen or trifluoromethyl; Y is selected from the group consisting of hydrogen, halogen, nitro and cyano; Z is selected from the group consisting of nitro, cyano and halogen; R is alkyl; R<sup>2</sup> is hydrogen or alkyl and R<sup>3</sup> is furfuryl or tetrahydrofurfuryl with an amine of the Formula III

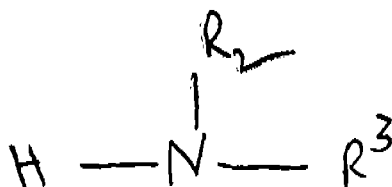


FIG III

wherein R<sup>2</sup> is hydrogen or alkyl and R<sup>3</sup> is furfuryl or tetrahydrofurfuryl in an inert organic solvent in the presence of an acid acceptor.

Compl. specn. 23 pages.

Drg. 1 sheet

CLASS : 119 B

159373

Int. Cl. : D 03 d 33/00.

#### A NARROW FABRIC WEAVING LOOM.

Applicant : BONAS MACHINE COMPANY LIMITED, A BRITISH COMPANY OF PALLION INDUSTRIAL ESTATE, SUNDERLAND SR4 6SX, ENGLAND.

Inventor : JOHN DALTON GRIFFITH.

Application for Patent No. 254/Del/1983 filed on 18th April 1983.

Convention date 23-4-1982/82 11813/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims.

A narrow fabric weaving loom which comprises a main frame having mounted therein a main drive shaft and a subsidiary frame, one or more weaving heads supported by said subsidiary frame, said subsidiary frame being provided with a plurality of rotatable shafts connected to each weaving head said rotatable shafts being driven through the medium of said drive shaft to which they are connected by separable drive couplings, said subsidiary frame being releasably connected to said main frame.

Compl. specn. 5 pages.

Drg. 2 sheets

CLASS : 24 B [LV]

159374

Int. Cl. : B 61 h-7/02.

#### AN IMPROVED BRAKE BLOCK SHOE HOLDER FOR DIESEL SHUNTING LOCOMOTIVES.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, AN INDIAN COMPANY OF 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001, UNION TERRITORY OF DELHI, INDIA.

Inventor : PHOOL SINGH SHARMA.

Application for Patent No. 269/Del/1983 filed on 22nd April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An improved brake block shoe holder for diesel shunting locomotives consisting of two side plates secured together, each side plate being shaped substantially like a triangle with its apex curved outwardly, the two side plates being secured together by metal plates welded to their inner faces, said side plates being supported by a shaft or pin passing through co-axial holes formed in the said side plates, two brake shoe blocks located on opposite sides of the brake holder and jib key suspending each brake shoe block on the said metal plates connecting the side plates together.

Compl. specn. 7 pages.

Drg. 2 sheets

CLASS : 126A &amp; B

159375

Int. Cl. : G 01 r 29/02.

A COMPENSATED ULTRASONIC TIMER DEVICE TO DETERMINE THE WAVE VELOCITY IN SOLID/UNDERGROUND STRATA.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : YELLAMRAJU VENKATA RAMANA & LAKKAPRAGADA PRABHAKARA SARMA.

Application for Patent No. 406/Del/1983 filed on 16th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

A compensated ultrasonic timer device to determine the wave velocity in solid, liquid, or underground strata comprising a pulse generator (1), the outputs of which are connected to two pairs of ultrasonic transducers ( $T, R_1$ ) & ( $T, R_2$ ), one pair of said transducers providing compensating direct pulses and the other pair of said transducers providing delayed pulses through the sample which is to be investigated, the test sample (2) being placed between the pair of the which is to provide the delayed pulses two identical amplifiers (3, 4) connected to the said transducers through their inputs and the outputs of the amplifiers connected to a digital measuring counter timer (5) for the measurement of the differential time interval between the opening and closing of the electronic gate of the digital counter time.

Compl. specn. 13 pages.

Drgs. 3 sheets

CLASS : 195 D

159376

Int. Cl. : F 16 k 11/00.

DISTRIBUTION VALVE FOR DISTRIBUTING A MEDIUM FLOW ON TWO FLOW PATHS.

Applicant : SULZER BROTHERS LIMITED OF ZURCHERSTRASSE 9, CH-8401 WINTERTHUR, SWITZERLAND.

Inventor : EDELBERT TIEFENTHALER.

Application for Patent No. 419/Del/83 filed on 20th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A distribution valve for distributing a medium flow on two flow paths comprising at least one inlet spigot (12) disposed on a distribution chamber (10) at right angles to an outlet spigot (14), a passage spigot (16) connected to the wall of the distribution chamber (10) and situated diametrically opposite the outlet spigot (14) and leading to a deflection chamber (18), an axially displaceable valve spindle (6) being provided coaxially in relation to the outlet spigot (14) and to the passage spigot (16), said valve spindle leading out of the deflection chamber (18) via stuffing box (32) and bearing a distribution member (7) in the region of the distribution chamber (10), characterised in that the distribution chamber (10) is divided into a circular cylindrical chamber (11) and an annular chamber (13), by a bush (8) mounted in the passage spigot (16) and in the outlet spigot (14) the bush (8) is formed with passage apertures (25, 25') leading from the annular chamber (13), to the circular cylindrical chamber (11), and the bush supports the distribution member (7) radially.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 195 B

159377

Int. Cl. : F16k 3/00.

A GATE VALVE FOR STEAM OR WATER PIPES.

Applicant : SULZER BROTHERS LIMITED OF ZURCHERSTRASSE 9, CH-8401 WINTERTHUR, SWITZERLAND.

Inventor : EDELBERT TIEFENTHALER.

Application for Patent No. 420/Del/83 filed on 20th June, 1983.

Convention date 9th March, 1983/423156/(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A gate valve for steam or water pipes comprising two ports disposed opposite one another on a valve housing, and two seats inside the valve housing, said seat being provided at the openings of said ports into said valve housing, and a gate disposed in the valve housing and displaceable transversely of the axes of the ports, said gate cooperating with the two seats and being connected to a valve spindle extending through a cover in the valve housing, said cover being provided with a seal which facilitates the spindle displacement, characterized in that portion of the gate which cooperates with said seats in the valve housing is conical and the seats in the valve housing also extend conically over said openings which are adapted to be covered by the conical portion of the gate.

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 89 &amp; 146A

159378

Int. Cl. : G 01 b 3/00, 7/00.

CAPACITIVE DEVICE FOR THE MEASUREMENT OF DISPLACEMENTS.

Applicant : TESA S.A., A COMPANY ORGANISED UNDER THE LAWS OF THE STATE OF VAUD, SWITZERLAND, OF RUE BUGNON 38, 1020 RENENS, SWITZERLAND.

Inventors : CHRISTOPHE WALTER, BURCKHARDT, JACQUES FOURNIER & PHILIPPE STAUBER.

Application for Patent No. 424/Del/1983 filed on 22nd June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A capacitive device for the measurement of the relative displacement of the scale and the slide of a length or angle measuring instrument in which said scale and slide are provided with series of electrodes aligned in the direction of said relative displacement and electrically fed in such a manner as to form, by their combination, a plurality of electric capacitances adapted to produce a periodic signal the number of periods of which is proportional to said relative displacement of the scale and slide, and in which the electrodes of the slide are connected to an electronic processing circuit adapted to count said number of periods and to interpolate therein so as to produce a digital measurement signal representing the measurement of said relative displacement, wherein the electrodes of the scale are uniformly placed along said scale at equal distance from each other, wherein at least a part of the electrodes of the slide are separated in two groups spaced apart one after the other in the direction of the elongation of the scale and opposite the electrodes thereof, each of said groups of electrodes comprising at least one pair of

electrodes the two electrodes of which are insulated from each, other and spaced apart from each other in the direction transverse to the elongation of the scale, said two electrodes being furthermore 180° out of the phase in the direction of the elongation of the scale and connected to a digital signal feed, wherein the electrodes of one of said two groups of electrodes and the electrodes are 90° out of phase in the direction of elongation of the scale, wherein the said electrodes of the slide form with the electrodes of the scale two pairs of measurement capacitances against ground the signals of which vary during the displacement of the slide along the scale and in accordance with the amplitude and direction of said displacement wherein the electronic processing circuit comprises two pairs of groups of MOS binary order reference capacitances each of which is switched over by a switch, each of said groups of reference capacitances being connected in a bridge with one of said measurement capacitances and said two pairs of groups of reference capacitances respectively forming with said two pairs of measurement capacitances two capacitive bridges, two comparators each connected to one of said two one of said two capacitive bridges, and a CMOS processor having two inputs each of which is connected to one of said comparators, two feedback, outputs each of which is connected to one of said capacitive bridges, and two digital interpolation modules each of which is connected to one of said comparators, said modules being further connected to said digital signal feed.

(Complete specification 19 pages) (Drawings four sheets)

CLASS : 125B<sub>2</sub> & 200C

159379

Int. Cl. : B 67 d 5/00.

#### LIQUID DISPENSING SYSTEM.

Applicant : CASTROL LIMITED a British Company of, Burnham House, Pipers Way, Swindon, Wiltshire, England,

Inventor(s) :—DAVID JOHN SPARKS, KEITH WHITE-FOOT & JOHN SANBURY KNUBLEY.

Application for Patent No. 434/Del/1983 filed on 29th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 22 Claims

A liquid dispensing system comprising in combination :

- (a) a source of liquid;
- (b) pump (101) means connected to the source of liquid;
- (c) a meter (161) connected to said pump (101) means to measure, and provide a signal representative of, the quantity of liquid pumped by the pump means;
- (d) a plurality of dispensing (181) units;
- (e) means to direct the liquid passing through the meter to the dispensing (181) units and including a valve means connected to and adjacent each dispensing unit;
- (f) display (321) means connected to and adjacent each dispensing unit; and
- (g) a control (281) means connected between said meter and said dispensing units and including :
  - (i) selectively operable means connected to the valve means to open the valve means at any one dispensing unit;
  - (ii) means to receive and transmit said signal to the display means associated with and adjacent to said one dispensing unit; and
  - (iii) means to disable the other display means whereby liquid is dispensable at any one dispensing unit, the display means connected to said one dispensing unit being adapted to display in response to said signal, a reading corresponding to said quantity passing through the meter and being dispensed at said dispensing unit.

Compl. specn. 37 pages.

Drgs. 5 sheets

CLASS : 184 & 164

159380

Int. Cl. : C 02 c 1/00.

#### IMPROVEMENT IN OR RELATING TO COMPACT SEPTIC TANK UNITS FOR USE IN LATRINES, TOILETS OR THE LIKE.

Applicant : DURYODHAN KISANJI DHARMIK C/O SHRI NARINDAR, BAHAI HOUSE, 6, CANNING ROAD, NEW DELHI-110001, AN INDIAN NATIONAL.

Inventor : IDEM.

Application for Patent No. 449/Del/83 filed on 2nd July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

An improved compact leak-proof and portable septic tank unit capable of being installed at any desired site within a small ground space consists of a set of three inter-connected cylindrical tanks fixed into suitable pits of the required depth and size characterised in that the said tanks are made of R.C.C. hume pipes and the arrangement is such that the first tank, called the main tank is of the longer height than the other two tanks and is connected at the top to the commode pot and also connected through a pipe to the second tank, called the sub-tank; the said sub-tank is further connected to the third tank, called the filtration tank which contains the necessary filtration material from which the night soil after undergoing treatment is released as a colourless and odourless liquid (water) which is discharged from the exit pipe of the filtration tank and further characterised in that the (first) main tank and the (second) sub-tank are (jointly) inter-connected to a common gas pipe for release of the gases that (may) arise in the said two tanks.

Compl. specn 6 pages.

Drg. 1 sheet

CLASS : 119-D

159381

Int. Cl. : D 03 d 45/00.

#### SHUTTLELESS WEAVING MACHINE COMPRISING MEANS FOR REMOVING FAULTY WEFT THREADS FROM THE WEAVING SHED.

Applicant : RUTI-TE STRAKE B.V., OF DR. HUUB VAN DOORNEWEG 26, 5753 PM DEURNE, THE NETHERLANDS.

Inventor : HUBERTUS HENRICUS AARTS.

Application No. 1549/Cal/83 filed December 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

Shuttleless weaving machine comprising a detector for tracing defects in weft threads and comprising means for removing faulty weft threads from the weaving shed, in which the detector cooperates with the driving apparatus of the weaving machine such that the main machine shaft is reversed through a certain angle at a fault signal of the detector and thereby the latest weaving shed change is put back in order to cancel the weave between the warp threads and the faulty weft thread, characterized in that the means for removing a faulty weft thread from the weaving shed are constituted by a member positioned at the insert side of the machine which is reciprocatable from an inoperative position, in the weft direction through the weaving shed, which member is adapted to move in its operative stroke the faulty weft thread through a distance contrary to the beating up direction from the beating up line in the cloth.

Compl. specn. 8 pages.

Drg. 2 sheets

Class : 107-K.

159382.

11 Claims

Int. Cl. F 02 d 13/00.

**A HYDRAULIC ACTUATING MECHANISM FOR A GAS EXCHANGE VALVE OF AN INTERNAL COMBUSTION ENGINE.**

Applicant : M.A.N. B & W DIESEL. A S. of CENTER SYD. NO. 161 STAMHOLMEN, 2650 HVIDOVRE, DENMARK.

Inventor : 1. FINN QUORDRUP JENSEN.

Application No. 1580/Cal/83 filed December 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**7 Claims**

A hydraulic actuating mechanism for a gas exchange valve of an internal combustion engine, comprising :

a cylinder having a single access port for the inflow and outflow of hydraulic liquid to and from two working chambers of variable volume defined by said cylinder and by a piston reciprocable within the cylinder and operatively connected to said gas exchange valve for opening the valve;

the effective areas of said piston subjected to a hydraulic pressure in said working chambers being oriented in the same direction opposite the direction in which the gas exchange valve opens;

a control valve adapted to connect said access port alternately to a supply duct for the inflow of high-pressure hydraulic liquid and to a liquid return duct;

a passage extending through the piston and/or the cylinder and interconnecting said working chambers, and means on the piston for selectively opening and closing said passage in response to the movement of the piston;

an outlet port from a first of said working chambers permanently connected to a region of low hydraulic pressure and located such that it is covered by the piston when the gas exchange valve occupies its closed position, and uncovered by a first cut-off edge on said piston after a predetermined travel of the piston from the closed position;

and a second cut-off edge on said piston which substantially at the same time closes the passage from the access port to said first working chamber.

Compl. specn. 19 pages.

Drg. 4 sheets

CLASS : 179-A

159383

Int. Cl. : B 65 d 67/00.

**A FRANGIBLE ANCHORING CAPSULE.**

Applicant : FOSROC INTERNATIONAL LIMITED, OF 285 LONG ACRE, NECHFELS, BIRMINGHAM B7 5JR, ENGLAND.

Inventors : 1. CHRISTOPHER GORDON LEWIS, 2. PATRICK MARTIN.

Application No. 1602/Cal. 83 filed December 30, 1983.

Convention dated 5th January, 1983 (83 00166) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A frangible anchoring capsule containing in separate compartments the interactive base and catalyst components of a self-setting cementitious composition, the base component comprising a cement and water, and the catalyst component comprising a catalyst and water wherein :

(i) the base component comprises cement particles coated with a coating which is insoluble in water and a complexing agent to complex any calcium ion released from the cement into solution, and

(ii) the catalyst component comprises a coating release material which will interact with the water insoluble coating to release cement particles to allow self-setting to take place.

Compl. specn. 16 pages.

Drg. Nil

CLASS : 71-D &amp; E

159384

Int. Cl. : B 62 d 55/00.

**CRAWLER CHASSIS.**

Applicant : VOEST-ALPINE AKTIENGESellschaft, OF A 1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. ERNEST MITTER, 2. ARNOLD DOTSCH, 3. RUPERT BRUNNSTEINER.

Application No. 17/Cal/84 filed January 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

Crawler chassis in which the crawler chain is guided within a crawler chain frame and is supported between a drive star and a deflection star by means of a plurality of track rollers, each of which is separately supported by a hydraulic cylinder aggregate, the working spaces of the cylinder-piston aggregates of a group comprising at least two cylinder-piston aggregates being hydraulically connected with one another and the working spaces of the cylinder-piston aggregates of one group being hydraulically separated from the working spaces of the other group or groups of cylinder-piston aggregates, characterized in that the track rollers (7) are bearing-supported immediately on the pistons (14) of the cylinder-piston aggregates (8), and the cylinders (11) of the cylinder-piston aggregates (8) are fixed to the crawler chain frame (1), and in that the pistons (14) of the cylinder-piston aggregates (8) are secured against rotation relative to the cylinders (11) of the aggregates.

Compl. specn. 12 pages.

Drg. 2 sheets

CLASS : 205-B, F, G &amp; K

159385

Int. Cl. : B 60 c 5/00, 9/00, 11/00, 13/00.

**METHOD AND APPARATUS FOR BUILDING PNEUMATIC TYRES.**

Applicant : APSLEY METALS LIMITED, OF 19 NEW BRIDGE STREET, LONDON, ENGLAND.

Inventors : 1. ERIC HOLROYD, 2. JAMES NEIL McGLASHEN.

Application No. 21/Cal/84 filed January 9, 1984.

Convention dated 15th January 1983 (83 01098) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**24 Claims**

A method of building a pneumatic tyre comprising filling the tread cavity of a patterned annular tread mould with unvulcanised tyre tread composition so that the tread is formed with the required final pattern and retained thereby in the mould, shaping the radially inner surface of the



tread to a first profile having the shape required to accommodate and locate a tread reinforcement breaker, fitting the breaker into the prepared first profile, consolidating the tread and breaker assembly, shaping the radially inner surface of the assembly to a second profile having the shape required to accommodate a tyre carcass, positioning the tyre carcass, which is not fully shaped, within and coaxial to the annular tread mould, further shaping the carcass so that the carcass forms a crown which contacts and adheres to the second profile, completing the tyre assembly, vulcanising the assembled tyre and removing the completed tyre from the tread mould.

Compl. specn. 17 pages.

Drg. 11 sheets

CLASS : 6-A<sub>2</sub>; 36-A<sub>3</sub>

158386

Int. Cl. : F 04 d 1/00, 17/00.

#### A WHEEL FOR A CENTRIGUGAL COMPRESSOR AND A METHOD OF MAKING SUCH A WHEEL.

Applicant : ARAP-APPLICATIONS RATIONNELLES DE LA PHYSIQUE, OF 70 RUE YVAN TROURGUE-NEUF 78380 BOUGIVAL, FRANCE.

Inventor : 1. PHILIPPE MARCHAL. 2. ANDRE KOENIG.

Application No. 53/Cal/84 filed January 25, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

A wheel for a centrifugal compressor, comprising a set of hollow curved sector-shaped scoops juxtaposed circumferentially around an axis to form a disc, and a drive shaft for driving said disc in rotation about said axis, said scoops comprising fibre-loaded material, and said scoops being connected circumferentially and radially by filaments stretched radially in clearances between the scoops and by a bonding agent bonding said filaments and said scoops together.

Compl. specn. 9 pages.

Drg. 3 sheets

CLASS : 68-B

159387

Int. Cl. : H 011 7/00.

#### LIGHT ACTIVATED THYRISTORS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. JOHN XAVIER PRZYBYSZ, 2. JOHN ANTHONY OSTOP.

Application No. 94/Cal/84 filed February 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A light activated thyristor protected from overvoltage by punch through, said thyristor having a top surface and a bottom surface, a first base region, and a second base region, said first base region having a well disposed therein, said well being spaced apart from a first emitter region, said well extending from the central portion of the top surface of the thyristor into the first base region a predetermined distance, said predetermined distance being such that the forward blocking junction under said well is contoured toward said reverse blocking junction, whereby, said second base region has a first width,  $W_N$ , under said well which is less than the width of the remaining portion of the second base region, said first width being such that :

$$W_D > W_N$$

wherein :  $W_D$  is the width of a depletion region formed at a desired breakover voltage.

Compl. specn. 10 pages.

Drg. 3 sheets

CLASS : 69-1

159388

Int. Cl. : H 02 b 1/00.

CONTACT DEVICE FOR THE ELECTRICAL CONNECTION OF TWO CONTACT FINGERS WHICH ARE NOT NECESSARILY IN EXACT ALIGNMENT WITH EACH OTHER.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNCHEN, D-8000 MUNCHEN, WITTELSBACHERPLATZ 2, FEDERAL REPUBLIC OF GERMANY.

Inventor : RAINER POTH.

Application No. 225/Cal/84 filed April 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A contact device for the electrical connection of two contact fingers which are at least substantially in alignment with each other, said contact device comprising :

a disc which is positionable between the facing ends of the contact fingers;

an arrangement of contact lamellae around the perimeter of the disc which extend in opposite directions from the disc so as to define, at the ends of the lamellae, a pair of opposed mouths each arranged to receive a respective one of the contact finger; and

spring means arranged to hold the contact lamellae in engagement with the disc and to urge the ends of the lamellae in radially inwardly whereby the lamellae are deformable radially outwardly against spring force by the contact fingers as the latter are received by said mouths;

in which :

each contact lamella has three contact regions for engaging the two contact fingers, there being two contact regions provided at one end and one contact region at the other end of each lamella; and

the lamellae are arranged in such a way that each end of a lamella which has two contact regions has adjacent thereto the end of a neighbouring lamella which has one contact region.

Compl. specn. 8 pages.

Drg. 1 sheet.

CLASS : 32-F<sub>1</sub>; 55-E<sub>2</sub>

159389

Int. Cl. : A 61 k 27/00.

METHOD OF PRODUCING PHARMACEUTICAL IODOPHOR PREPARATIONS HAVING PREDICTABLE MICROBICIDAL EFFECTIVENESS AND LONG DURATION OF ACTION.

Applicant : EUROCELTIQUE, S.A., 122 BOULEVARD DE LA PETRUSSE, LUXEMBOURG.

Inventors : 1. HELMUT RACKUR, 2. FRWIG PINTER, 3. ALFRED HALPERN, 4. RONALD B. MILLER, 5. MONTIMER D. SACKLER, 6. RAYMOND R. SACKLER, 7. RICHARD S. SACKLER.

Application No. 121/Cal/84 filed April 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

Method of producing a pharmaceutical iodophor preparation having predictable microbicidal effectiveness and long duration of action, said method comprising the steps of forming a solution of an organic substance such as herein described adapted to form a complex with iodine, said solution containing iodide ions, adding an oxidizing agent such as herein described to said solution in an amount sufficient to provide free iodine therein, said free iodine and

the iodine bound to said organic substance constituting the total iodine content, adjusting the ratio of total iodine to iodide to between about 2 : 1 and 10 : 1, thereby maintaining a free iodine content of at least 2 ppm, and adding further said oxidizing agent to stabilize the content of free iodine therein.

Compl. specn. 18 pages.

Drg. Nil

CLASS : 69-I

159390

Int. Cl. : H 01 r 33/48.

#### A MODULE HOLDER FOR HOLDING ELECTRONIC MODULES.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : ROMAN KELLER.

Application No. 233/Cal/84 filed April 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

In a module holder for holding electronic modules, having two lateral parts, four connecting pieces, and a printed circuit board for the back wall wiring which is detachably attached to the two rear connecting pieces, characterized in that the circuit board is clamped to both connecting pieces with a least one elastic force accumulator.

Compl. specn. 11 pages.

Drg. 1 sheet

#### PATENTS SPALED

151057	155196	156532	157023	157024	157025	157026
157028	157052	157120	157121	157139	157178	157179
157340	157352	157459	157487	157515	157596	157597
157602	157603	157606	157610	157617	157627	157640
157643	157663	157665	157677	157679	157681	157687
157688	157691	157692	157694	157695	157697	157698
157757						

#### REGISTRATION OF ASSIGNMENTS LICENCES ETC. (PATENTS)

In pursuance of an application dated 24th September 1985, National Research Development Corporation of India, Indian Company has been registered as proprietors by virtue of an assignment deed dated 5th October, 1984 and made between Council of Scientific & Industrial Research of the one part and National Research Development Corporation of India of other part in respect of Patent No. 150484.

#### RENEWAL FEES PAID

137930	138321	138360	139001	139913	140466	140596
146241	146388	146788	147121	147294	147295	148107
142456	142780	142818	142878	142927	142937	143366
143732	143902	144703	144711	145461	145830	146056
146241	146388	146788	147121	147294	147295	148107
148268	148333	148395	148381	148716	148867	149024
149035	149090	149325	149346	149425	149596	149649
149753	149904	149954	149978	150079	150159	150187

150232	150904	150912	150939	150985	151006	151207
151257	151363	151379	151420	151429	151451	151684
151894	152065	152097	152108	152558	152559	152750
152782	152891	152893	153068	153075	153096	153280
153293	153477	153486	153487	153601	153702	153739
153857	153929	154209	154271	154427	154498	154595
154606	154832	154896	155198	155348	155373	155871
158873	156102	156144	156145	156258	156311	156321
156350	156420	156473	156484	156694	156852	156858
157125	157353					

#### CESSATION OF PATENTS

152008 156416 156665

#### RESTORATION PROCEEDINGS

##### (1)

Notice is hereby given that an application for restoration of Patent No. 150824 dated the 15th March, 1980 made by Sachindra Nath Sen, on the 14th March, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 11th October, 1986 has been allowed and the said patent restored.

##### (2)

Notice is hereby given that an application for restoration of Patent No. 152234 dated the 15th March, 1980 made by Sachindra Nath Sen on the 14th March, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 11th October, 1986 has been allowed and the said patent restored.

##### (3)

Notice is hereby given that an application for restoration of Patent No. 152985 dated the 27th Nov., 1979 made by Comp. Air Industrial Limited on the 20th August, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 6th December, 1986 has been allowed and the said patent restored.

##### (4)

Notice is hereby given that an application for restoration of Patent No. 153058 dated the 24th September, 1979 made by Council of Scientific & Industrial Research on the 15th July, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 18th October, 1986 has been allowed and the said patent restored.

##### (5)

Notice is hereby given that an application for restoration of Patent No. 153299 dated the 19th September, 1980 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2, dated the 18th October, 1986 has been allowed and the said patent restored.

##### (6)

Notice is hereby given that an application for restoration of Patent No. 154004 dated the 4th July, 1981 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2, dated the 8th October, 1986 has been allowed and the said patent restored.

(7)

Notice is hereby given that an application for restoration of patent No. 154380 dated the 23rd June 1981 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2, dated the 18th October, 1986 has been allowed and the said patent restored.

(8)

Notice is hereby given that an application for restoration of patent No. 154387 dated the 2nd September 1981 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2, dated the 18th October, 1986 has been allowed and the said patent restored.

(9)

Notice is hereby given that an application for restoration of patent No. 154382 dated the 16th June, 1981 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2, dated the 18th October, 1986 has been allowed and the said patent restored.

(10)

Notice is hereby given that an application for restoration of Patent No. 154394 dated 9th 9th January, 1981 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2, dated the 18th October, 1986 has been allowed and the said patent restored.

(11)

Notice is hereby given that an application for restoration of Patent No. 154396 dated the 30th September, 1981 made by Council of Scientific & Industrial Research on the 2nd July, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 18th October, 1986 has been allowed and the said patent restored.

(12)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155257 granted to Kuldeep Verma, Veena Verma and Rattan Singh for an invention relating to "a process for the treatment of seeds to improve their storability".

The patent ceased on the 5th November, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 7th February, 1987.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 9th July, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks shall be filed with the notice or within one month from the date of the notice.

# CANCELLATION PROCEEDINGS (SECTION 51A)

An application made by Rangaswamy Naidu Doraiswamy for cancellation of the Registration of Design Nos. 156800 & 156801 in class 3 in the name of Balco Engineering has been filed.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 3. No. 157468. Chubbs Computer Vaults Limited, an Indian Company Duly Registered under the Companies Act and having its office at : 909, Parekh Market, 39 J.S. Road, Opera House, Bombay-400 004, Maharashtra, India. "A TOKEN". 19th September, 1986.

Class 3. No. 157561. Kumar Plastic, an Indian Sole Proprietors' firm of 42, Patel Industrial Estate, S. V. Road, Dahisar (East), Bombay-400 068, Maharashtra India. "Spray Pump". 17th October, 1986.

Class 3. No. 157563. Societe Generale Des Eaux Minerales De Vittel, a French Company of 88800 Vittel, France "A Container". 21st October, 1986.

Class 3. No. 157668. Universal Luggage Manufacturing Company Private Limited, (an Indian Company) at Building-B Shah Industrial Estate, Saki Vihar Road, Bombay-400 072, Maharashtra State, India. "Suitcase". 17th November, 1986.

Class 3. Nos. 157638 & 157639. National Celluloid Products 1st floor, Vakil Industrial Estate, Walbhat Road, Goregaon (East), Bombay-400063, Maharashtra, India, an Indian Partnership Firm. "Tray Set". 6th November, 1986.

Class 3. No. 157773. Blue cross Laboratories Private Limited. 305, Raheja Centre, Nariman Point, Bombay-400021, Maharashtra, India, a private limited company incorporated under the Indian Companies Act. "Bottle". 12th December, 1986.

Class 3. No. 157783. Electronic Consortium Private Limited, (a Company incorporated under the Companies Act) at 5A/1, 2, 3 Ansari Road, Darya Ganj, New Delhi-110 002, India. "Television Cabinet". 17th December, 1986.

Class 3. Nos. 157790, 157792, 157793. Electronic Consortium Private Limited, (A company incorporated under the Companies Act) at 5A/1, 2, 3 Ansari Road, Darya Ganj, New Delhi-110 002, India "Television Cabinet". 18th December, 1986.

Class 3. No. 157840. V.I.P. Industries Limited, of V.I.P. House, 88C Old Prabhadevi Road, Bombay-400025, Maharashtra, India, an Indian Company. "Suitcase". 1st January, 1987.

Class 3. No. 157867. Crystal Plastics & Metallizing Private Limited, Sanghli House, Palkhi Galli, Off Veer Savarkar Marg, Prabhadevi, Bombay-400025, Maharashtra, India, a Private limited company incorporated under the Indian Companies Act. "Hair Comb". 14th January, 1987.

Class 5. No. 157464. Venkateshwara Hatcheries Private Limited, an Indian Company duly registered and incorporated under Companies Act and having its Registered Office at : 13/6 Milestone, Pune-Pan-shet Road, P.O. Girinagar, Poona-411 025, Maharashtra, India, "A Doll Mask". 19th September, 1986.

Class 5. No. 157478. Abraham Levy, a Citizen of Isreal, of 44 Alumin Street, Afeka, Tel-Aviv, Israel. A "Sun Shield". 23rd September, 1986.

Class 10. Nos. 157472 & 157473. Manavati Plastic Manufacturing Co., Private Limited, an Indian Company duly registered under Companies Act and having its Registered Office at : S. No. 465/2 of Village Bhyandar, Kashimira-Bhyandar Road, Distt : Thane, Pin : 401 104, Maharashtra, India. "Shoe Sole". 19th September, 1986.

EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

Nos. 151590, 151589, 151322, 151313, 151312, 151407, 151456, 151311, 156760, 156590.—Class-1.

Nos. 151597, 151354, 156677, 157282, 157283.—Class-3.

Nos. 157284, 157285.—Class-6.

EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

Nos. 156760, 156570.—Class-1.

Nos. 151354, 156677, 157282, 157283.—Class-3.

Nos. 157284, 157285.—Class-6.

R. A. ACHARYA,  
Controller General of Patents,  
Designs and Trade Marks.